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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,867	03/22/2002	Michael Lehner	R37032	6759
759	00 10/06/2003		EXAM	INER
Walter Ottesen			DAVIS, OCTAVIA L	
Patent Attorney				
PO Box 4026			ART UNIT	PAPER NUMBER
Gaithersburg, MD 20885-4026			2855	

DATE MAILED: 10/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		RF.			
	Application No.	Applicant(s)			
2	10/088,867	MICHAEL LEHNER			
° Offic Action Summary	Examiner	Art Unit			
	Octavia Davis	2855			
Feriod for Reply	appears on the cover sheet with th	e correspond nce address			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state  - Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).  Status	N. 1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) iod will apply and will expire SIX (6) MONTHS fruitute, cause the application to become ABANDO	e timely filed  days will be considered timely.  rom the mailing date of this communication.  DNED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on _	·				
2a)☐ This action is <b>FINAL</b> . 2b)⊠	This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims					
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application	on.				
4a) Of the above claim(s) <u>1-4 and 7</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>5 and 6</u> is/are rejected.					
7)☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exam	iner.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) ☐ The oath or declaration is objected to by the	Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority docume	ents have been received in Applic	ation No			
<ul> <li>Copies of the certified copies of the p         application from the International     </li> <li>* See the attached detailed Office action for a limited process.</li> </ul>	Bureau (PCT Rule 17.2(a)).	•			
14)☐ Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C. § 11	9(e) (to a provisional application).			
a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for dome	• •				
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)			
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)  Office	Action Summary	Part of Paper No. 7			

Application/Control Number: 10/088,867 Page 2

Art Unit: 2855

Acknowledgment is made of applicant's preliminary amendment filed 5/30/02.

## Election/Restrictions

1. Claim 7 is withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 6.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 5 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There is no indication in these claims of how the misfire detection is implemented, i.e. on what basis is misfire judged or determined?

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/088,867

Art Unit: 2855

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

Page 3

sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 5 and 6 are rejected under 102(b) as being anticipated by Dietz et al.

Regarding claim 5, Dietz et al disclose a method for detecting combustion misfires

comprising considering the position of angular segments relative to a reference point (TDC) of the

movement of the piston of an engine 1 which are dependent upon an operating parameter of the

engine (See Col. 3, lines 26 - 37 and 59 - 61) and evaluating segment times in which a shaft of the

engine passes through the angular segments (See Col. 3, lines 21 - 25 and 39 - 54).

Regarding claim 6, in Dietz et al, an angular expansion of the angle segments is considered

and the angle expansion of the angle segments is dependent upon an operating parameter of the

engine (See Cols. 3 and 4, lines 47 - 54 and 61 - 67).

6. Any inquiry concerning this communication should be directed to examiner Octavia Davis at

telephone number (703) 306 - 5896. The examiner can normally be reached on Monday - Thursdays

(9:00 - 5:00), Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward Lefkowitz, can be reached on (703) 305 - 4816. The fax phone number for

the organization where this application where this application or proceeding is assigned is (703)

746 - 4409.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308 - 0956.

OD/2855

September 16, 2003

SUPERVISORY PATENT EXAMINER

TECHNOLUGY CENTER 2800